



**Mr. Eric D. Larsen**

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*Significant research in the fields of instrumentation and control of industrial processes*

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**Education:** Mr. Larsen

received a BS in mechanical engineering from Utah State University in 1990.

**Work experience:** Mr. Larsen has been with the Idaho National Engineering and Environmental Laboratory since 1990. His current focus centers on developing techniques for remote sealing of spent nuclear fuel canisters in highly radioactive environments. Mr. Larsen's research contributions in this field provide safe, effective and efficient methods of packaging radioactive waste. Previous projects have included instrumentation and control of varied industrial process, from iron furnaces to biological reactors. These projects involved the integration of instrumentation, vision systems and robotic control with advanced control algorithms to improve the efficiency and controllability of complex processes.

**Professional endeavors:** Mr. Larsen's research focuses on control of industrial processes and the practical implementation of advanced control techniques in commercial applications. This has led to the cooperative research projects with other national laboratories as well as numerous universities and private companies.

**Patents:**

U.S. Patent 6,792,336 – Learning-based Controller for Biotechnology Processing, and Method of Using

U.S. Patent 6,484,584 – Method for the Concurrent Ultrasonic Inspection of Partially Completed Welds

U.S. Patent 6,385,857 – Position Detectors, Methods of Detecting Position, and Methods of Providing Positional Detectors

U.S. Patent 6,365,873 – Apparatus for the Concurrent Inspection of Partially Completed Welds

U.S. Patent 6,178,819 – Inspection Apparatus for Evaluating a Partially Completed Weld

**Licensing information**

For information on licensing INL technologies such as those developed by Mr. Larsen, contact the Lead Account Executive for Industrial Processing and Manufacturing:

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